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CLAIMS

- 1. A flip-chip-type gallium nitride compound semiconductor light-emitting device comprising a substrate, an n-type semiconductor layer, a lightemitting layer, a p-type semiconductor layer, a negative electrode provided on the n-type semiconductor layer, and a positive electrode provided on the p-type semiconductor layer, the layers being successively provided atop the substrate in this order and being composed of a gallium nitride compound semiconductor, wherein the positive electrode has a three-layer structure comprising an ohmic electrode layer which is in contact with the p-type semiconductor layer, an adhesion layer which is provided on the ohmic electrode layer, and a bonding pad layer provided on the adhesion layer, each melting point of these layers being lowered in this order.
 - 2. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 1, wherein the ohmic electrode layer is composed of a metal selected from the group consisting of Rh, Pt and Ir, or composed of an alloy containing at least one of these metals.
 - 3. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 2, wherein the ohmic electrode layer is composed of Rh.
 - 4. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 3, wherein the adhesion layer is composed of Ti or Cr.
- 5. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 4, wherein the adhesion layer is composed of Ti.
- 6. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 5, wherein the bonding pad layer is composed of a metal selected from the group consisting of gold, aluminum, nickel, and copper, or composed of an

alloy containing at least one of these metals.

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7. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 6, wherein the adhesion layer has a thickness of 10 Å to 1,000 Å.

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- 8. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 7, wherein the adhesion layer has a thickness of 10 Å to 100 Å.
- 9. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 8, wherein the ohmic electrode layer has a thickness of 100 Å to 3,000 Å.
 - 10. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 9, wherein the ohmic electrode layer has a thickness of 500 Å to 2,000 Å.
 - 11. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 10, wherein the bonding pad layer has a thickness of at least 1,000 Å.
 - 12. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 11, wherein the bonding pad layer has a thickness of 3,000 Å to 5,000 Å.
 - 13. A flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 6 to 12, wherein the bonding pad layer is composed of gold.
- 14. A positive electrode for use in a gallium nitride compound semiconductor light-emitting device, wherein the positive electrode has a three-layer structure comprising an ohmic electrode layer which is brought into contact with a p-type semiconductor layer of the compound semiconductor light-emitting device, an adhesion layer which is provided on the ohmic electrode layer, and a bonding pad layer provided on the adhesion

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layer, each melting point of these layers being lowered in this order.

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- 15. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to claim 14, wherein the ohmic electrode layer is composed of a metal selected from the group consisting of Rh, Pt and Ir, or composed of an alloy containing at least one of these metals.
- 16. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to claim 15, wherein the ohmic electrode layer is composed of Rh.
- 17. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to any one of claims 14 to 16, wherein the adhesion layer is composed of Ti or Cr.
- 18. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to claim 17, wherein the adhesion layer is composed of Ti.
- 19. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to any one of claims 14 to 18, wherein the bonding pad layer is composed of a metal selected from the group consisting of gold, aluminum, nickel, and copper, or composed of an alloy containing at least one of these metals.
 - 20. A positive electrode for use in gallium nitride compound semiconductor light-emitting device according to any one of claims 14 to 19, wherein the adhesion layer has a thickness of 10 Å to 100 Å.
- 21. A positive electrode for use in a gallium nitride compound semiconductor light-emitting device according to claim 20, wherein the adhesion layer has a thickness of 30 Å to 50 Å.
 - 22. A light-emitting diode comprising a flip-chip-type gallium nitride compound semiconductor light-emitting device according to any one of claims 1 to 13.
 - 23. A lamp comprising a flip-chip-type gallium

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nitride compound semiconductor light-emitting device according to any one of claims 1 to 13.